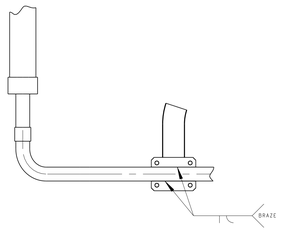
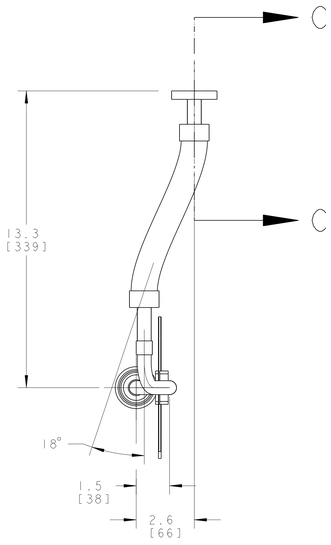
NOTES: (UNLESS OTHERWISE SPECIFIED)

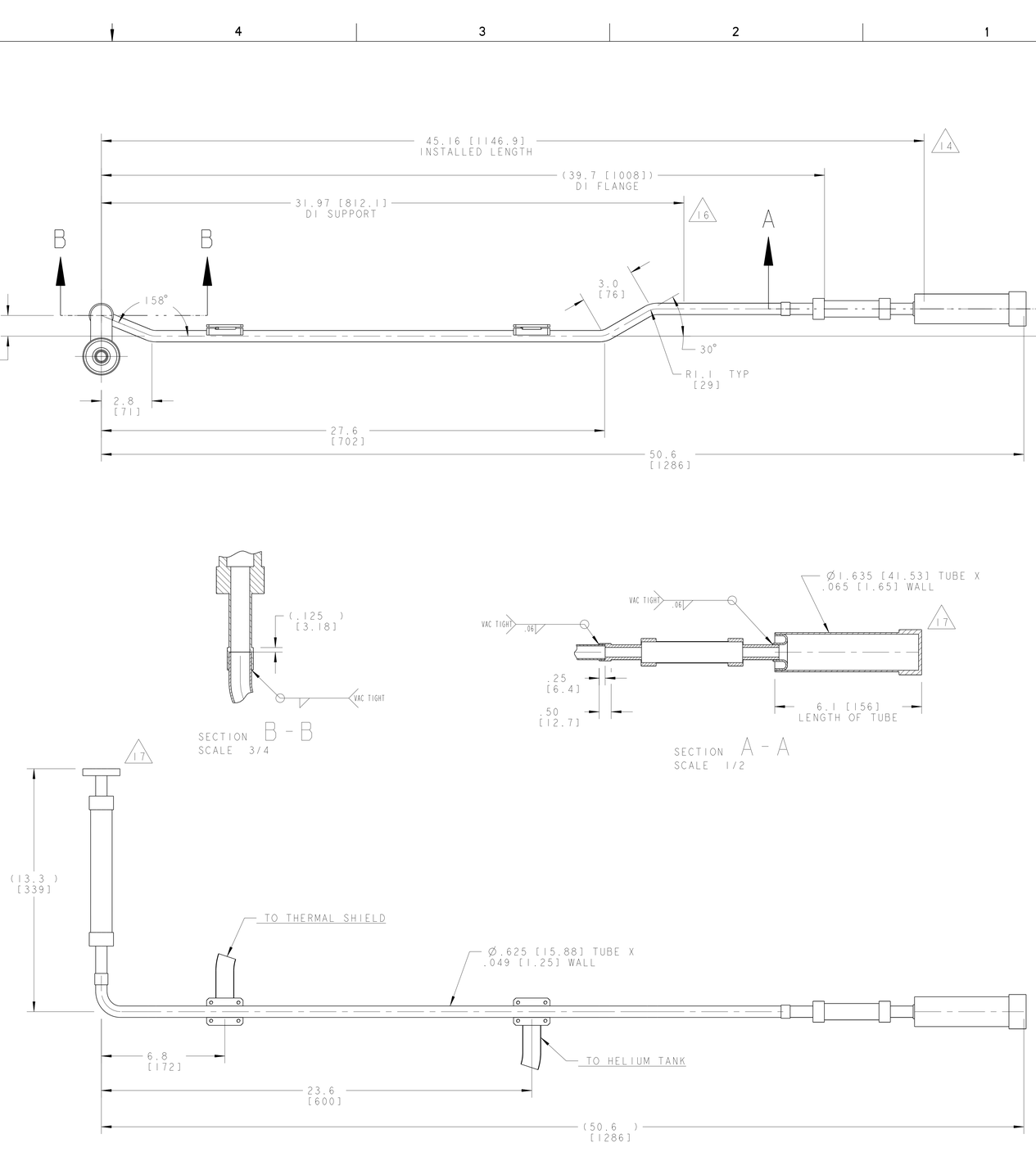
1. THIS IS A CRYOGENIC VACUUM COMPONENT.
2. WELDING PROCEDURE: PER VENDOR SPECIFICATION WITH LBNL APPROVAL.
3. CLEANING PROCEDURE : PER VENDOR SPECIFICATION WITH LBNL APPROVAL.
4. PACKAGING AND STORAGE PROCEDURE OF THE COMPONENTS: PER VENDOR SPECIFICATION WITH LBNL APPROVAL.
5. DIMENSIONS AND TOLERANCING PER ANSI Y14.5M-1982. UNITS ARE IN INCHES [mm] UNLESS OTHERWISE SPECIFIED.
6. USE OF SULFUR OR SILICONE BEARING OILS, LUBRICANTS, OR COOLANTS ARE STRICTLY PROHIBITED.
7. USE OF RESIN OR RUBBER BONDED ABRASIVES UNDER POWER IS STRICTLY PROHIBITED. USE VITREOUS BONDED ABRASIVES ONLY.
8. VENDOR SUGGESTED CHANGES TO WELD PREPS; SUBJECT TO LBNL APPROVAL.
9. FITTINGS MAY BE USED IN PLACE OF BENDS. SUBJECT TO LBNL APPROVAL
10. VENDOR SUGGESTED CHANGES TO TOLERANCES TO FACILITATE FABRICATION OR ASSEMBLY; SUBECT TO LBNL APPROVAL.
11. REMOVE ALL THE BURRS AND REAM THE ENDS FOR CIRCULARITY AND CLEAN ENDS.
12. TUBE END SURFACE MUST BE PERPENDICULAR TO THE TUBE AXIS WITHIN +/-.010.
13. PERFORM ACCEPTANCE TESTS PER SECTION 3.2 OF LBNL SPECIFICATION M856.
14. A MARK DESIGNATING THE INSTALLED LENGTH WILL BE UTILIZED DURING FINAL INSTALLATION OF THE FEEDBOX ASSEMBLY. MARK, SCRIBE OR ETCH THIS LOCATION IN A PERMANENT MANNER, SUBJECT TO LBNL APPROVAL, TO AN ACCURACY OF ±0.063".
15. PROVIDE A MINIMUM LENGTH OF 4.0" OF STRAIGHT, SMOOTH PIPE ON THE INDICATED SIDE OF THE INSTALLED LENGTH MARK FOR PIPE WELDING DURING FINAL INSTALLATION OF THE FEEDBOX ASSEMBLY.
16. PIPE MUST BE STRAIGHT AND SMOOTH (NO BUMPS) FOR 0.5" ON EITHER SIDE OF THE CENTER-PLANE OF THE SUPPORT.
17. CAP END OF PIPE AFTER ACCEPTANCE TESTS PER SECTION 3.2 OF LBNL SPECIFICATION M856.
18. PIPE SHIPPED WITH CAPPED TUBE WELDED TO BELLOWS FLANGE. THE TUBE WILL BE CUT AS SHOWN AND USED AS A WELD SLEEVE DURING FINAL INSTALLATION OF THE FEEDBOX.
19. THE INTERIOR OF ALL COMPONENTS MUST BE FREE OF BURRS TO PREVENT WIRE INSULATION FROM ABRASION DURING THERMAL CYCLING.

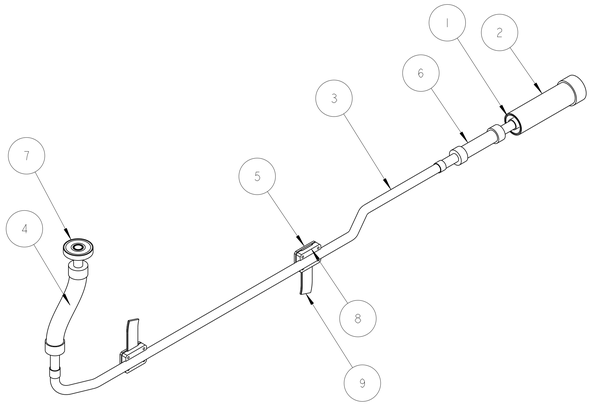
SECTION B - B
SCALE 3/4

SECTION A - A
SCALE 1/2

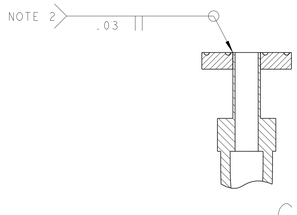








SCALE 1/4



SECTION C - C
SCALE 3/4

ITEM	PART NO	REQD	DESCRIPTION	MATERIAL
9	-	2	COPPER BRAID, 1" X 1/8"	-
8	25M877	2	CLAMP BASE PLATE, 5/8" TUBE	COPPER, OFHC, C101
7	251641	1	INSERT, 5/8" TUBE WELD FLANGE	SS 304L
6	-	1	BRAIDED FLEX HOSE, 1/2" ID X 3" LL, 5/8 END, 5/8 SOCKET END	SS 300 SERIES
5	25M813	2	CLAMP COVER 1"	OFHC, C101
4	-	1	BRAIDED FLEX HOSE, 3/4" ID, ELBOW & WELD SOCKET - 7.2"LL	SS 300 SERIES
3	-	1	TUBE, ASTM A269	SS 304L
2	-	1	TUBE 3, ASTM A269	SS 304L
1	251644	1	BELLOWS FLANGE, ROLLED	SS 304L

THIRD ANGLE PROJECTION

REV	DWG	CHK	ZONE	DATE	CHANGES
A	ARH	SPV		11-22-02	INITIAL RELEASE

UNLESS OTHERWISE SPECIFIED
TOLERANCES: X.X ± 0.1; FRAC. ± 1/64; X.XX ± 0.03; Angles ± 1.00°; X.XXX ± 0.010; FINISH 125 √
DO NOT SCALE PRINT
THREADS ARE CLASS 2
CHAMFER ENDS OF ALL SCREW THREADS 30°
CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS
BREAK EDGES .010 MAX. ON MACHINED WORK
REMOVE BURRS, WELD SPLATTER & LOOSE SCALE
IN ACCORDANCE WITH ASME Y14.5M & ENG.1

SHOP ORDERS
ACCT NO.: - ; NO. REQD: - ; DATE ISSD: - ; DEL TO: - ; DATE REQD: -
SURFACE TREATMT: - ; IDENT METHOD: TAG ; PROJECT NUMBER: N/A ; PROJECT NAME: N/A
DWG BY: R LA MANTIA — DATE: 07-Nov-02
CHK BY: S.Virostek — DATE: 11-22-02
APR BY: Jon Zbasnik/D.Osbatz — DATE: 11-07-02

ERNEST ORLANDO LAWRENCE
BERKELEY NATIONAL LABORATORY
UNIVERSITY OF CALIFORNIA - BERKELEY

LHC IR FEEDBOX
CRYOGENICS
PIPE, MBX2

MICROFILMED: - ; DWG. TYPE: ASSEM ; SHOWN ON: - ; SCALE: ~3/8 ; DO NOT SCALE PRINTS
SHEET 1 OF 1
PATENT CLEAR: - ; DESIGN ACCT. NO.: Z5LCE2 ; CATEGORY CODE: LH2003 ; DWG. NO.: 2512496 ; SIZE: A ; REV.: A

DWG. NO. 2512496 SIZE A1 SH 1